

# Master Control Room Video Display Interfaces #105

William Berg
Diagnostics Group
APS Operations Division

### Argonne National Laboratory



A U.S. Department of Energy Office of Science Laboratory Operated by The University of Chicago





## Project: Main Ctrl Room - Video Display Interfaces

Objective: Design and implement a MCR video display interface system to complement

the APS site wide "real-time" video infrastructure that is currently in progress. Proposing an elegant and ergonomic integration of three video display stations based on 30" screens, PC streaming receivers/digitizers, and various standard broadcast monitors.

#### **Background Information:**

- New Initiative
- Single Year Funding
- High Priority

Justification: The display stations proposed here would properly instrument the MCR with sufficient display capabilities to efficiently use and assimilate existing and future video based data analysis systems, alarms, and streaming resources.

Consequence: Will result in increased user downtime from lack of machine fault detection and access to beam analysis systems.

Cost: FY05 Cost Noneffort: \$126k

FY05 Total w/effort: \$189k

## MCR Video Display Interfaces

- Final Component of the "Real Time" Video Upgrade.
- 64 Independent Uninterruptible Video Channels.
- One Hundred Video Signals from APS Machines.
- Implementation of the Frame Grabber Pool Expands our On Line Analysis and Machine Monitoring Capabilities.
- Work Stations Do Not Support Full Size/Res Streaming Video.
- Enhances Perceived Appearance of our Master Control Room.





## MCR Video Display Interface

### **Existing Master Control Room Video Monitors**







